

PE1801

---更强、更韧、更安全的集装箱液袋材料



Stronger, Tougher, Safer PE film

PARAM®



试验报告
试验日期: 2018-04-15 14:48:35
试验次数: 316
试验模式: A 60min 2700
试验名称: 液袋材料

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2018-04-15 08 59

www.Labthink.com



FDT-02 FLEX DURABILITY TESTER
薄膜试验机



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秉承安全至上的理念，着眼市场和客户需求，植根聚乙烯薄膜设计研发生产，我们携手陶氏化学、埃克森美孚等世界一流创新研发型企业，共同致力于功能性大型液体运输包装薄膜的开发。经过我们多年的努力和付出，于2018年隆重推出我们的最新研发成果“PE1801型”聚乙烯薄膜。

Adhering to our “safety first” theory, and based on market and customers demands, we set up long term strategic cooperation with Exxon Mobile and Dow Chemical to devote to new LDPE material research and development, after two years experiment and test, we are really proud to present you our latest product - “PE1801”PE film.

The ExxonMobil logo, featuring the word "ExxonMobil" in a bold, red, sans-serif font.A logo for Flexitank featuring the text "WORLD'S LEADING MANUFACTURER OF FLEXITANK" in a black, serif font, centered within a white rectangular box. The box is framed by a dark red border that forms a stylized 'V' or '7' shape. There are also several small, dark red triangles scattered around the main logo.A list of certifications and standards: "PROVED BY COA, ISO9001, EC, EU, KOSHER, FDA, SGS, HALAL". The text is in a black, serif font and is enclosed in a white rectangular box with a black border. There are several small, dark red triangles scattered around the box.

提供的特性 characteristic

带来的优点和潜在价值 Advantages and Potential Value

-
- | | |
|--|---|
| ▪ 出色的机械性能
Excellent Physical Performance | → 持久耐用，适用于需要耐损性能的产品 Durable, applicable for damage resistance product |
| ✓ 优异的韧性 Perfect tenacity | → 较高的包装完整性，减少运输途中的损坏风险 Better integrity |
| ✓ 优异的抗揉搓性 Perfect Kneading resistance | → 可通过线型共混物优化薄膜解决方案 Linear blends to help streamline PE solutions |
| ✓ 出色的纵向撕裂强度 Perfect tear resistance | → 减薄机会 Possibility for thinner PE film |
| | → 提高单层性能 Enhance performance of single PE layer |
| ▪ 高熔体强度和产量
High Dissolution strength and productivity | → 提高膜泡稳定性，可提升加工商业绩 Improve stability of PE bubble |
| | → 无需低密度聚乙烯即可实现高产量 Improve productivity without LDPE |
| | → 可选择在保持性能的同时生产更厚的内衬膜 Available for thicker PE film |
| ▪ 优异的热封性能
Perfect welding performance | → 出色的热封性能和优异的制袋性能 Perfect welding performance and productivity |
| | → 更长的保存期和产品保质期 Longer storage and quality life |
| ▪ 更高的挺度 Higher Deflection | → 在同等密度下挺度更高 Better deflection under the same density |
| ▪ 满足全球食品法规要求*
Qualified for Global Food Regulations | → 可萃取物极少，低异味 Very few extractable substances, low odor |
-

强度高 High Strength

1. 拉伸强度(TD/MD) : 45.4Mpa;

Tensile strength(TD/MD): 45.4Mpa

拉伸强度提升23% Improved by 23% ↑

2. 落镖冲击强度 : ≥ 1390g;

Dart drop strength: ≥ 1390g

强度提高12% Improved by 12% ↑

3. 穿刺强度: 48N, Puncture strength: 48N

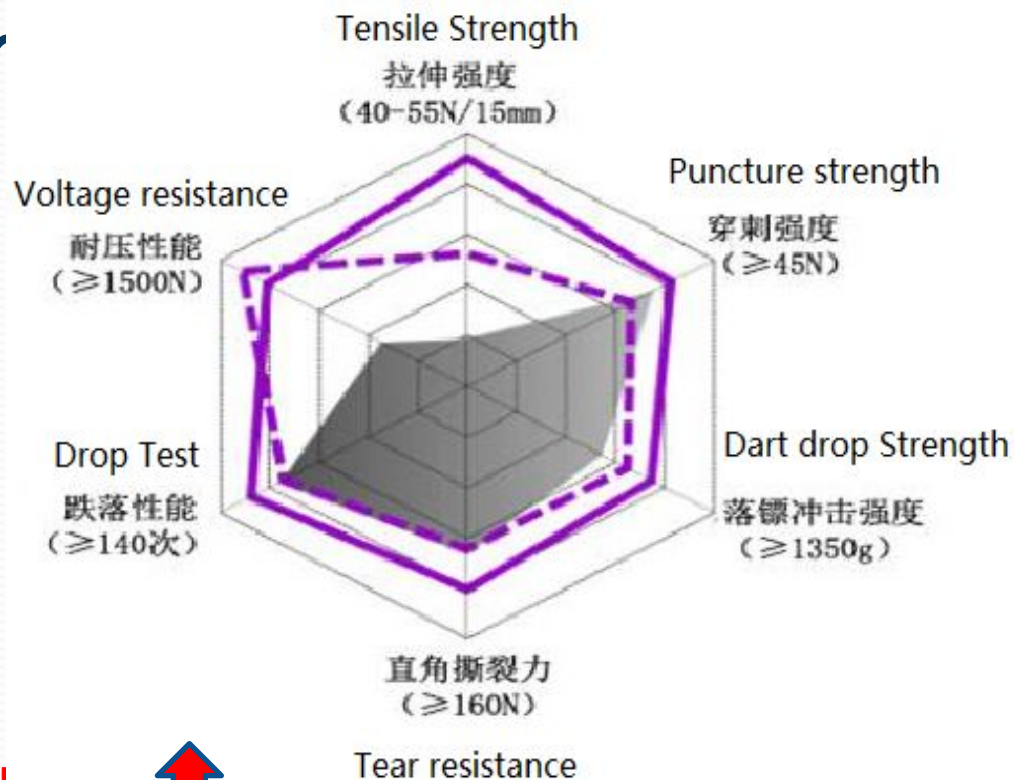
强度提高15% Improved by 15% against original

4. 直角撕裂力(TD/MD) : 180N, Tear

strength(TD/MD): 180N

强度提高28% Improved by 28% against original

140N



PE1801

Old

韧性好 Perfect Tenacity

①揉搓针孔数(10800次)≤2个;

Kneading Test(10800times)≤2 holes

极大增强了PE膜的抗揉搓性能, significantly

Improve it's kneading resistance

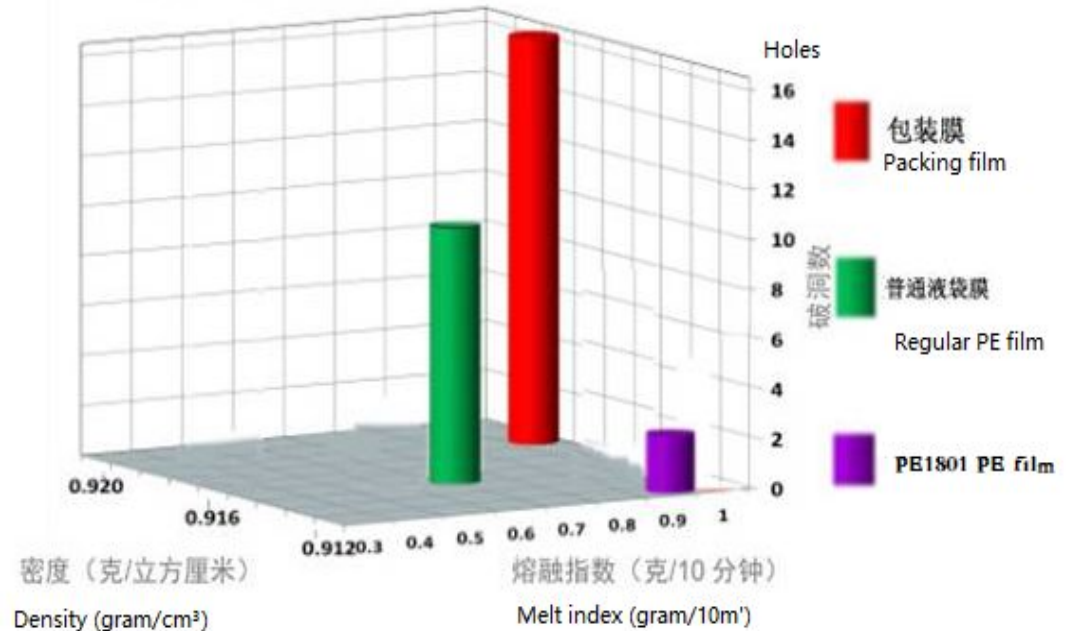
②断裂伸长率(TD/MD)≥800%;

Elongation(TD/MD)≥800%

③穿刺位移: ≤4.0mm。

Puncture displacement ≤4.0mm

抗揉搓性对比 Kneading Resistance Contrast



热封性能优异

Excellent Welding performance

热合强度(单层膜) $\geq 20\text{N}/15\text{mm}$;

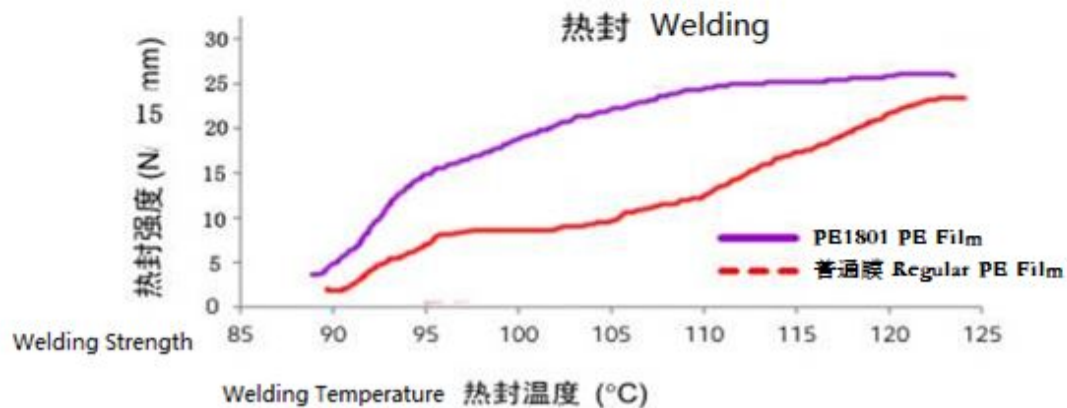
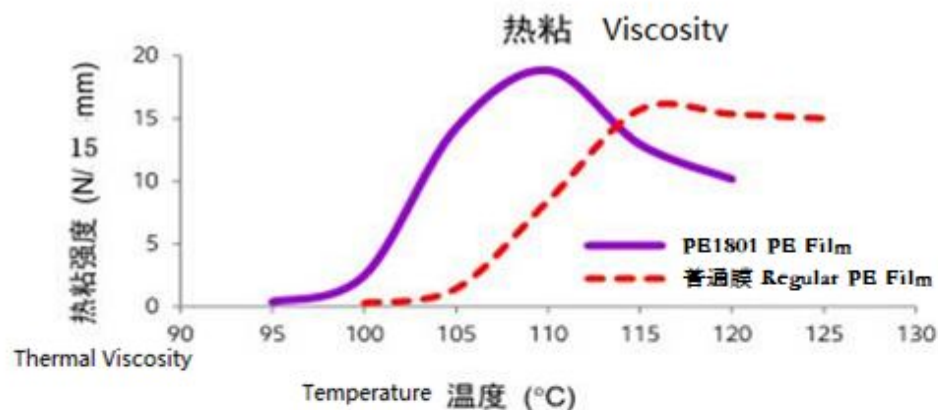
Welding strength (single layer) $\geq 20\text{N}/15\text{mm}$

热粘性(105~115°C) $\geq 15\text{N}/15\text{mm}$ 。

Thermal viscosity (105~115°C) $\geq 15\text{N}/15\text{mm}$

PE1801极大提升了PE膜的热封性能, 能在更短时间更低温度下达到更高热封强度。

PE1801 significantly improve it's welding performance, achieve better welding strength with shorter time and lower temperature.



卫生安全 Safe Healthy:

1. 符合美国FDA、欧盟EU、日本JIZS, 以及中国GB4806.7、GB9685等卫生性能的各项要求。

Qualified for FDA, EU, JIZS of Japan and GB4806.7

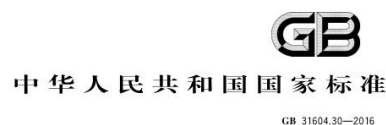
GB9685 of China.

2. 邻苯二甲酸酯含量及迁移量远低于GB61604.30标准的要求。

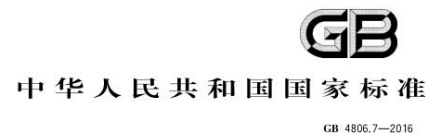
The content and mobility of phthalate are far below the requirement of GB61604.30 standard.

3. 特定化学物质含量低于国际标准。

Content of certain chemicals is below B61604.30 standard



食品安全国家标准
食品接触材料及制品
邻苯二甲酸酯的测定和迁移量的测定



食品安全国家标准
食品接触用塑料材料及制品

5.7 特定化学物质

单种材料(油墨、胶水、基材)的指标应符合表 10 的规定。
产品控制指标 $Pb+Cd+Hg+CrVI < 80$ mg/kg。

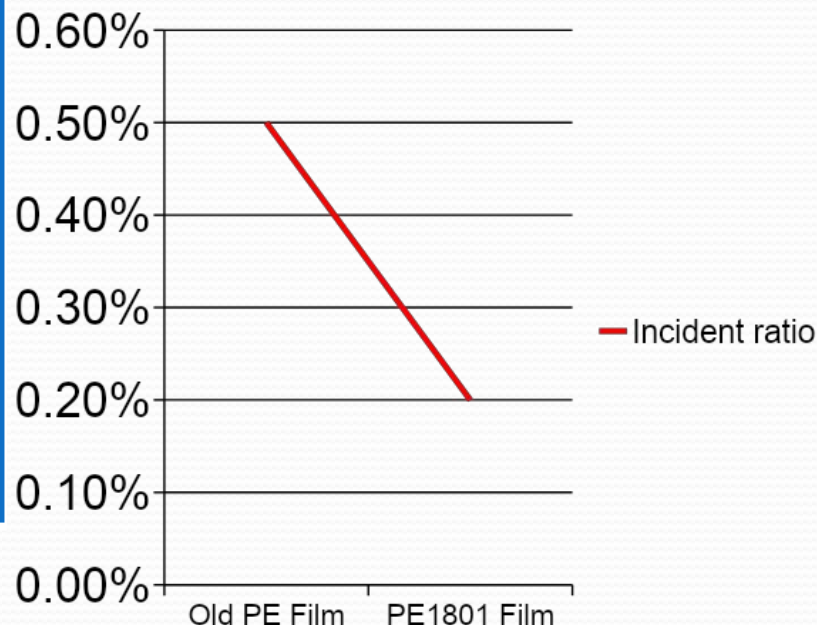
表 10 特定化学物质

物质名称	指标/(mg/kg)
镉及镉化合物	<5
铅及铅化合物	<5
汞及汞化合物	<5
六价铬化合物	<5
多溴联苯	不得检出
多溴二苯醚	不得检出

10	聚乙烯 PE	US FDA 21 CFR 177.1520	ASTM D1505-10 US FDA 21 CFR 177.1520	密度 浸提物	- 2 种模拟物
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PE1801的投产使用极大的提高了液袋的安全稳定性，事故率有原来的0.5%提高到0.2%。

PE1801 entrusts wonderful stability and safety to our flexitank, which help reduce incident ratio from 0.5% to 0.2% remarkably.



得益于我们精益求精的科研和生产团队，我们总是能第一时间面向客户推出我们的最新技术和产品，更好的去帮助我们的客户达到双赢的可持续发展。

Thanks to our excellent RD and PD, we always can present our latest technology and products to our customers ahead of market, supporting our customers for sustainable win-win situation, and for ourselves!